**AMENDMENTS** 

IN THE CLAIMS

1. (previously presented) A tunnel endpoint device comprising:

a network interface connected to a local area network having a cluster of tunnel endpoint

devices, the tunnel endpoint device being one of the cluster, the network interface configured to

receive a Start-Control-Connection-Request (SCCRQ) message via the local area network to

initiate establishment of a tunnel connection, wherein the SCCRQ includes a destination address

field modified to be set to a local address of the tunnel endpoint device and a tunnel ID value

assigned by a tunnel initiator to the tunnel connection being set-up;

means for forming a Start-Control-Connection-Reply (SCCRP) message having

an address of the tunnel initiator, the tunnel ID value assigned to the tunnel connection by the

tunnel initiator, and a tunnel ID value assigned to the tunnel connection by the tunnel endpoint

device; and

means for transmitting the SCCRP message to a network address translation

server via the network interface.

2. (previously presented) The tunnel endpoint device of claim 1, further comprising

means for receiving a Start-Control-Connection-Connected (SCCN) message to establish a

tunnel connection between the tunnel initiator and the tunnel endpoint device.

3. (previously presented) The tunnel endpoint device of claim 1, further comprising means for forming load status messages that indicate a current traffic load of the tunnel endpoint

device.

4. (previously presented) A cluster master device comprising:

a first interface coupled to a first network having a plurality of network devices; and

a second interface for communicating with a second network,

wherein the cluster master device has a master global address that is unique on the second

network, and

wherein the cluster master device is configured to receive from the second network

tunnel connection request messages having the master global address in a destination address

field and, for each tunnel connection request message received:

(i) select one of the plurality of network devices;

(ii) insert a local address for the selected network device into the destination

address field of the received tunnel connection request message; and

(iii) transmit the received tunnel connection request message as modified over

the first network interface onto the first network.

5. (previously presented) The cluster master device of claim 4, wherein the cluster

master device selects one of the plurality of network devices based on a traffic load of each

network device.

6. (previously presented) The cluster master device of claim 4, wherein the cluster

master device receives load status messages from each network device and assigns the received

tunnel connection request message to the network device that currently has the lowest traffic load

as indicated by the load status messages.

7. (previously presented) The cluster master device of claim 4, wherein the tunnel

connections are Layer 2 Tunneling Protocol (L2TP) connections.

8. (previously presented) The cluster master device of claim 4, wherein the first

network is a local area network (LAN) and the second network is an Internet protocol (IP)

network.

9. (previously presented) The cluster master device of claim 4, wherein the tunnel

connection request messages include a source address field set to an IP address of a tunnel

initiator, and a source tunnel ID field set to a tunnel ID value assigned to the tunnel connection

by the tunnel initiator.

10. (previously presented) The cluster master device of claim 4, wherein the cluster

master device keeps track of network devices that are out of service or temporarily inactive.

11. (previously presented) A method for terminating tunnel connections comprising:

receiving a tunnel connection request message;

receiving a load status message from each tunnel endpoint device of a plurality of tunnel

endpoint devices on a network;

based on the load status messages, selecting a tunnel endpoint device to receive the

tunnel connection request message; and

assigning the tunnel connection request message to the selected tunnel endpoint device.

12. (previously presented) The method of claim 11, wherein selecting the tunnel

endpoint device to receive the tunnel connection request message comprises:

based on the load status messages, determining which tunnel endpoint device has the

lowest load; and

selecting the tunnel endpoint device that has the lowest load.

13. (previously presented) The method of claim 11, wherein assigning the tunnel

connection request message to the selected tunnel endpoint device comprises:

inserting a local address for the selected tunnel endpoint device into a destination

address field of the tunnel connection request message; and

transmitting the tunnel connection request message as modified onto the network.

14. (previously presented) A method for terminating tunnel connections comprising:

receiving tunnel connection request messages having a master global address in a

destination address field and, for each tunnel connection request message received:

selecting one of a plurality of network devices connected to a network;

inserting a local address for the selected network device into the destination

address field of the received tunnel connection request message; and

transmitting the received tunnel connection request message as modified onto the

network.

15. (previously presented) The method of claim 14, further comprising transmitting a

tunnel set-up reply message over the network, wherein the tunnel set-up reply message includes

a source address field having the address of the selected network device.

16. (previously presented) The method of claim 15, wherein transmitting the tunnel

set-up reply message over the network comprises:

transmitting the tunnel set-up reply to a network address translation (NAT) server;

replacing the address of the selected network device in the source address field of the

tunnel set-up reply message with a global address for the NAT server;

storing a table entry accessible to the NAT server that relates the global address to the

address of the selected network device; and

transmitting the tunnel set-up reply message onto the network.

17. (previously presented) The method of claim 14, wherein selecting one of the

plurality of network devices connected to the network comprises selecting one of the plurality of

network devices based upon a traffic load on each of the network devices.

- 18. (previously presented) The method of claim 14, further comprising receiving load status messages from each of the plurality of network devices.
- 19. (previously presented) The method of claim 18, wherein selecting one of the plurality of network devices connected to the network comprises selecting one of the plurality of network devices based upon which network device currently has the lowest load as indicated by the load status messages.
- 20. (previously presented) The method of claim 14, wherein the tunnel connections are Layer 2 Tunneling Protocol (L2TP) connections.